

# 102-1 生物資訊程式設計

Bioinformatics Programming 2013

07/25

Cho-Yi Chen

陳卓逸

[NTU.Joey@gmail.com](mailto:NTU.Joey@gmail.com)

# Announcements

2

## ■ 作業需知

- 同學寫作業時請盡量嚐試解完全部的問題，就算是 wrong answers, 我們還是會視最終繳交的程式碼完成度斟酌給分。
- 本課程一共會出30題作業(deadline 7/30)，但只要成功完成其中任25題即可。行有餘力的同學，歡迎繼續挑戰同學解完全部30題題目(honors but no bonus :)
- Review (7/30): 隨機挑選同學上臺講解自己的解法
  - 不限程式語言，但請訓練自己寫出易讀易懂的程式。請確定自己寫出來的程式自己能夠看得懂並能講解。

# The Final

3

- **A. Final Project**

- 1-4人一組
- 評分：Me + Dr. Hsu

- **B. Final Exam**

- 6題選5題解 in 2 hours

- **C. Final Homework**

- Additional 60 problems (deadline 8/27)
- 2 points per one (max 100 points)
- Review (8/27): Same as 7/30

# Syllabus

4

- 介紹Python (7/16)
  - 歷史、特點
  - 基本語法
- 資料結構 (7/18)
  - String/List/Tuple
  - Set & Dict
- 函數與模組 (7/23)
  - 類別與物件
  - 內建模組/自訂模組
- 科學運算 (7/25)
  - numpy & scipy
  - matplotlib
- 生資相關 (7/30)
  - networkx
  - biopython
- Perl Programming
  - (8/1, 8/20, 8/27)
- 期末Review (8/27)

若無法出席請務必事先請假

終

# Notes

- Install 3rd Party Packages

- Make sure you have requested the **Academic License** w/ your **edu** email address

- Enrollment in Rosalind

- Log in w/ one of your existing accounts OR
- Create a new account in Rosalind
- Ask the TA for enrollment link

The image shows two overlapping browser windows. The top window displays the main Enthought Canopy website with a navigation menu and a 'Get Canopy' button. A red arrow points from this button to the bottom window. The bottom window shows the 'Enthought Canopy for Academic Use' page, which includes a 'Request your Academic License' button highlighted in green. A second red arrow points from the text 'Request your Academic License' to this button. A large red number '5' is visible in the top right corner of the image.